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CENTRAL INTELLIGENCE AGENCY

REPORT

50X1-HUM

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SOURCE

Avtomobil naya i traktornaya promyshlennost', No 1, 1951.

## SCIENTIFIC RESEARCH AND EXPERIMENTAL PROJECTS OF THE USSR AUTOMOTIVE INDUSTRY

The following is List No 1 of 1951 in a series of reports by the Ministry of Automobile and Tractor Industry USSR on scientific research and experimental projects carried out in its institutes and plants:

ENIIPP (Experimental and Scientific Research Institute of the Bearing Industry)

Characteristics and heat treatment of small bearings made from ShKhl5

Technique of finishing raceways of tapered roller bearings by precision \* granding with abrasive stones.

ENITPP-KP-14 instrument for measuring the transverse waves formed on cylinder surfaces.

Album of working attachments for the machining of rings for tool bearings No 25 and 6005.

Investigation and selection of new-type grinding wheels for grinding ring apertures.

Experiments in high-speed cutting of pipe for the production of bearing rings by means of ZPS-126 automatic machines.

Investigation and introduction of high-speed cutting on multitool machines and four-spindle automatics.

Measuring instrument for the P-53-M internal grinding machine.

Automatic instruments of groove-grinding machines for measuring external P-68-M rings.

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Effect of cold-hardening on the strength of the surface layer of bearing rings.

Investigation and introduction of high-speed cutting on six-spindle automatics.

Qualities and heat treatment of ShKhl5 steel with high manganese content.

Technique of lathe-turning of hardened rings on semiautomatic machines.

Investigation and selection of new-type grinding wheels for grinding grooves, raceways, and ring-edges.

Technique of cold-stamping of external conical rings.

Machining of rolled bearing billets.

Standard block for broaching the external profile of rolling friction bearings.

Stress in high-speed bearing cages resulting from the action of centrifugal forces.

NAMI (Scientific Research Institute for Automobile and Automobile Motors)

Most advantageous conditions for the operation of internal combustion engines together with hydrodynamic transformers.

Design and testing of the NAMI closed-type pump injector for the YaAZ-204 engine.

Operation of GAZ-51 bottled-gas trucks on liquefied gas.

Peculiarities inherent in the gasification of high-moisture wood shavings.

### Yaroslavl' Automobile Plant

Effectiveness of various types of lamps in warming the YaAZ-20 $^{\rm h}$  engine in cold weather.

#### TsKB (Central Design Bureau) of the Bearing Industry

Stand for testing bearings at high speeds and under heavy loads.

Stand for testing bearings of automobile transmission housings.

Orgavtoprom /Institute (?) for the Organization of Automobile Industry/

Standard technique of machining cylinder sleeves for tractor engines.

Standard technique for machining iron pistons.

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